

Historic, Archive Document

Do not assume content reflects current
scientific knowledge, policies, or practices.

1.96
R31Fso
r. 1942
~~cop. 1~~



SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR OREGON

AS OF

MARCH 1, 1942

* * *

Issued March 9, 1942

by

U.S.

Division of Irrigation, Soil Conservation Service

United States Department of Agriculture

and

Oregon Agricultural Experiment Station, Medford Branch
cooperating

* * * * *

Data included in this report were obtained by the agencies listed above, in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations. 1/

* * *

WATER SUPPLY OUTLOOK

The outlook for Oregon 1942 water supply ranges from barely fair in parts of southern Oregon and the central Cascade area to good or better in most of the eastern and northeastern parts of the State. As usual, prospects lack uniformity, but in most areas, due partly to magnified reservoir storage and partly to improved snow conditions, are considered better than at this time last year. Areas outstanding in promise of 1942 irrigation water supply are Crooked River and the Ochoco Project, Malheur and Owyhee Rivers and the Harney Basin.

Snow stored water at most locations above 5,000 feet elevation showed less than usual February increase, but the February increase at lower elevations was about average. By March 1, above 5,000 feet snow stored water averaged only slightly more than at the same time last year, but below 5,000 feet a great increase is noted over that for last year.

Watershed soils remain unfrozen and generally well wetted, thus favoring maximum sustained run-off from whatever snow pack may be accumulated at the beginning of the run-off season.

Slight melting of lower-lying snow has already occurred, but only insignificant melting of the high level snow cover has thus far this season been observed.

Total water stored in all reported reservoirs increased approximately 10 percent during February and now very materially exceeds that of last year and is the greatest of any recent year, but the number of reservoirs half full or better is not as great as in the recent years 1939 and 1940.

Precipitation accumulated in Oregon valleys since October 1 is generally greater than for the same period last year and averages above normal in all geographical sections of the State, except the Blue Mountain area. In that section the deficiency is slight. Valley precipitation in most areas was only very slightly deficient during February.

Snow measurements upon which the final 1942 annual water supply forecasts will be based are scheduled during the closing days of March and final forecasts will be available soon thereafter.

COMPARISON OF SNOW COVER AS OF MARCH FIRST
WITH THAT OF PREVIOUS YEARS

For Oregon as a whole, and for elevations above 5,000 feet, of the 49 snow courses reporting, 33 were measured last month, 48 were measured about March 1, 1941, 47 were measured about March 1, 1940 and 43 were measured about March 1, 1939. Comparison of records on these courses for the approximate dates mentioned follows:

Snow cover (water content) now present above 5,000 feet:

As percent of that present one month ago	-----	172
As percent of that present one year ago	-----	103
As percent of that present two years ago	-----	118
As percent of that present three years ago	-----	93

For elevations from 2,000 to 5,000 feet, of the 31 snow courses and Copco water stations reporting about March 1, 1942, all were measured last month, all were measured about March 1, 1941, 27 were measured about March 1, 1940 and 26 were measured about March 1, 1939. Comparison of records on these courses for the approximate dates mentioned follows:

Snow cover (water content) now present from 2,000 to 5,000 feet:

As percent of that present one month ago	-----	178
As percent of that present one year ago	-----	174
As percent of that present two years ago	-----	175
As percent of that present three years ago	-----	58

Snow water content on 77 percent of all of the courses is as great or greater than at this time in 1941 and in 82 percent of the comparisons is as great or greater than on about February 1 of 1940. However, snow water content on only 45 percent of all the courses is as great or greater than at this same time in 1939.

on

Individual snow course measurements beginning/ Page 7 are arranged under each stream basin in order of descending elevation.

STATUS OF SNOW COVER AS OF MARCH FIRST (Cont.)

Summary of Snow Survey Data by
Tributary Drainages as of about March First

Tributary Drainage	Number of snow courses averaged	Average Water Depth in Snow Cover (Inches)				1942 Snow Water Depth (Inches) as Percent of that in		
		1942	1941	1940	1939	1941	1940	1939
Owyhee River	14	9.8	9.0			109		
	15	10.3		7.4			140	
	14	10.2			8.4			121
Malheur River	3	9.2	9.3			99		
	3	9.2		7.3			126	
	3	9.2			7.8			118
Burnt River	2	10.5	9.7			108		
	2	10.5		6.8			154	
	2	10.5			7.2			146
Powder River	5	11.7	12.7			92		
	5	11.7		12.8			91	
	5	11.7			13.5			87
Grande Ronde River	4	12.5	14.9			84		
	4	12.5		18.1			69	
	3	12.1			24.3			50
Walla Walla River	1	14.1	15.6			90		
	1	14.1		18.1			78	
	1	14.1			34.6			41
Umatilla River	4	9.9	7.6			130		
	4	9.9		9.9			100	
	4	9.9			18.2			54
Willow Creek	1	11.2	9.3			120		
	-	-		-			-	
	-	-			-			-
John Day River	8	9.8	9.3			105		
	7	9.6		7.4			130	
	7	9.6			10.2			94
Deschutes River	1	28.4	21.4			133		
	-	-		-			-	
	-	-			-			-
Crooked River	2	9.4	6.8			138		
	2	9.4		5.5			171	
	2	9.4			7.6			124

		1942	1941	1940	1939	1941	1940	1939
Sandy River	2	23.0	16.2			142		
	2	23.0		18.6			124	
	2	23.0			38.5			60
Clackamas River	1	8.9	4.3			207		
	1	8.9		7.6			117	
	1	8.9			19.2			46
Willamette River	5	13.0	7.9			164		
	1	11.7		9.6			122	
	1	11.7			37.0			32
Chewaucan River	1	6.4	7.9			81		
	1	6.4		6.0			107	
	1	6.4			5.4			118
Harney Basin	6	7.7	6.8			132		
	6	7.7		4.6			167	
	5	7.5			5.8			129
Guano Lake	1	11.1	7.3			152		
	1	11.1		5.6			198	
	-	-			-			-
Umpqua River	4	7.0	6.6			106		
	4	7.0		5.5			127	
	4	7.0			17.8			39
Upper Rogue River	10	9.9	7.6			130		
	10	9.9		7.8			127	
	10	9.9			15.2			65
Applegate River	2	18.6	19.4			96		
	1	16.1		14.3			113	
	1	16.1			14.5			111
Illinois River	1	4.4	3.7			119		
	1	4.4		2.9			152	
	-	-			-			-
Klamath Lake Basin	20*	8.3	8.0			104		
	20*	8.3		5.7			146	
	20*	8.3			9.5			87
Goose Lake Basin	3*	8.0	8.8			91		
	3*	8.0		4.0			200	
	3*	8.0			6.8			118

*Including Copco water measurement stations.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be carefully documented to ensure the integrity of the financial data.

2. The second part of the document outlines the procedures for handling incoming payments. It details the steps for verifying the amount, the date, and the source of the payment before recording it in the appropriate ledger.

3. The third part of the document describes the process for issuing invoices. It stresses the need for clarity and accuracy in all invoice details, including item descriptions, quantities, and prices, to avoid any disputes with customers.

4. The fourth part of the document addresses the issue of budgeting. It provides guidelines for setting realistic budgets and for monitoring actual spending against those budgets to ensure financial control.

5. The fifth part of the document discusses the importance of regular financial reviews. It suggests that management should conduct periodic analyses of the company's financial performance to identify trends and make necessary adjustments.

6. The sixth part of the document covers the topic of tax compliance. It highlights the importance of staying up-to-date with the latest tax regulations and ensuring that all tax obligations are met on time.

7. The seventh part of the document describes the process for managing accounts payable. It outlines the steps for verifying bills, negotiating payment terms, and ensuring that payments are made accurately and on schedule.

8. The eighth part of the document discusses the importance of maintaining proper documentation for all financial transactions. It emphasizes that all records should be stored securely and organized in a way that makes them easy to access when needed.

9. The ninth part of the document covers the topic of financial reporting. It provides guidelines for preparing clear and concise reports that provide a comprehensive overview of the company's financial health.

10. The tenth part of the document discusses the importance of maintaining accurate records of all financial transactions. It emphasizes that every entry, no matter how small, should be carefully documented to ensure the integrity of the financial data.

STATUS OF RESERVOIR STORAGE AS OF MARCH FIRST

In the following tabulation, water storage in acre feet in important Oregon reservoirs as of about March 1, 1942 is compared with storage as of February 1, 1942, as well as with storage as of approximately March 1 of 1941, 1940 and 1939.

Storage Reservoir	Stream Basin	Capacity Acre Ft.	Acre Feet in Storage				
			About 3-1-42	About 2-1-42	About 3-1-41	About 3-1-40	About 3-1-39
Agency Valley	Malheur	60,000	49,250	44,520	48,240	50,820	44,120
Antelope	Owyhee	33,434	10,200	4,000 ^a	15,000	Empty	3,900
Clear Lake	Lost River	440,240 ^b	281,540 ^b	249,380 ^b	245,200 ^b	241,480 ^b	230,160 ^b
Crane Prairie	Deschutes	55,336 ^c	24,014	17,470	23,000	37,000 ^a	30,800
Crescent Lake	Deschutes	80,000	21,980	21,260	22,700	31,480	56,760 ^e
Drew Creek	Goose Lake	62,500	45,000	40,000 ^a	30,900	42,790	33,390
Emigrant Gap	Rogue	8,200	Full	6,468	Full	Full	2,716
Fish Lake	Rogue	7,720	3,598	3,340	3,604	4,430	6,127
Four Mile Lake	Klamath ^d	14,000	3,294	2,894	2,988	7,826	10,394
Gerber	Klamath	94,000 ^b	42,160 ^{b,f}	43,380 ^b	50,880 ^b	59,220 ^b	36,370 ^b
Hyatt Prairie	Klamath ^d	16,000	7,080	5,880	3,055	4,400	10,810
McKay	Umatilla	75,000	65,740	55,670	29,100	32,840	30,110
Ochoco	Crooked	47,500	15,970	9,620	5,780	4,060	21,900
Owyhee	Owyhee	715,000	552,620	510,790	594,570	464,170	534,020
Thief Valley	Powder	17,400	14,860	13,900	Full ^a	11,912	11,045
Unity	Burnt	25,400	11,680	11,680	12,790	12,160	-
Upper Klamath	Klamath	524,800 ^b	422,900 ^b	350,400 ^b	327,700 ^b	383,500 ^b	405,400 ^b
Wallowa Lake	Wallowa	40,920	32,770	32,040	18,070	11,710	36,960
Warm Springs	Malheur	190,000	150,600	140,590	127,000	85,500	141,600
Willow Creek	Malheur	26,000	N.R.	N.R.	4,800	600 ^e	4,000 ^a

a- Estimated

b- Available for use

c- 40,500 by agreement

d- By ditch to Rogue River side

e- Approximate

f- 7,050 wasted during February

.....

.....

.....

.....

.....

.....

STATUS OF VALLEY PRECIPITATION AS OF OCTOBER 1 TO DATE

Month	Oct.		Nov.		Dec.		Jan.		Feb.		Period	
Section	P	D	P	D	P	D	P	D	P	D	P	D
S. E.	1.06	+0.38	0.79	-0.12	1.22	+0.26	1.2	0.0	2.2	+1.1	6.47	+1.62
S. C.	1.38	+0.33	1.55	-0.20	4.10	+2.21	2.2	+0.3	2.2	+0.7	11.43	+3.34
N. C.	1.28	+0.38	2.69	+1.10	2.42	+0.80	2.8	+1.0	0.9	-0.3	10.09	+2.98
Col. Riv.	1.11	+0.09	1.92	+0.08	1.91	+0.26	1.4	-0.2	1.5	+0.2	7.84	+0.43
Wal. Mts.	1.62	+0.32	2.06	+0.41	3.09	+0.80	0.8	-0.6	1.0	-0.3	8.57	+0.63
Blue Mts.	1.92	+0.51	1.81	-0.44	2.44	+0.39	1.7	-0.8	1.6	-0.3	9.47	-0.64
Southern	1.75	-0.14	3.06	-0.78	8.63	+5.08	2.6	-1.2	2.9	-0.4	18.94	+2.56
Willamette	3.17	-0.56	7.46	-0.61	11.84	+3.77	6.2	-1.6	5.8	-0.4	34.47	+0.60
Area	1.60	+0.16	2.67	-0.07	4.46	+1.70	2.4	-0.4	2.3	0.0	13.41	+1.44

P - Inches precipitation. D - Inches departure from normal.

S.E. - Southeastern Oregon range lands, Harney and Malheur Counties.

S.C. - Southcentral Oregon range lands, Lake County and Klarath County, except the Cascade Mountains.

N.C. - Northcentral Oregon wheat and range lands, Crook, Deschutes, Jefferson, Wheeler and part of Grant Counties.

Col. Riv. - Columbia River area, wheat and range lands, Gilliam, Morrow, Sherman, Wasco and part of Umatilla Counties.

Wal. Mts. - Wallowa Mountain area, forest and range lands, Wallowa and part of Baker County.

Blue Mts. - The Blue Mountain forest and range area, Union and parts of Baker, Grant and Umatilla Counties.

Southern - Southern Oregon irrigated section, Jackson and Josephine Counties.

Willamette - Parts of Polk, Benton, Yachill, Washington, Lane and all of Linn, Marion, Clackamas and Multnomah Counties.

Note: Data for the last two months shown above are preliminary only, as they are based on a few stations only. Data for earlier months have been corrected to include all the stations in climatological data for the area.



REGION 9
 OREGON WATERSHEDS
 SNOW SURVEYS
 U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 W. H. BENNETT, CHIEF
 REFERENCE: Snow Survey, 1934-35
 Surveying: 1934-35
 Mapping: 1934-35
 Technical: 1934-35
 Printed: 1934-35
 11-19-41

Scale in Miles
 0 10 20 30 40

INDEX TO SNOW COURSES

[illegible]

TRIBUTARY BASINS (Primary & Secondary & Snow Courses)	LOCATION		SNOW COVER MEASUREMENTS About March 1, 1942				AVERAGE WATER DEPTH (INCHES)					
	Oregon Number	Sec. Twp. Range	Elev.	Date	Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month ago (2-1-42)	One Year ago (3-1-41)	Two Years ago (3-1-40)	Three Years ago (3-1-39)		
<u>OWYHEE RIVER</u>												
<u>U P P E R C O L U M B I A D R A I N A G E</u>												
<u>L O W E R S N A K E I N O R E G O N</u>												
Granite Peak	Nev.	27	44N	39E	8600	3-4	40.3	13.7	-	15.7	15.0	12.8
Upper Buckskin	Nev.	14	45N	39E	8200	3-2	32.7	11.2	-	13.4	10.8	8.0
Mary's River	Nev.	4	44N	58E	8000	2-28	50.0	17.6	-	-	14.7	16.5
Upper Jack Creek	Nev.	9	42N	53E	7800	2-27	35.3	11.4	-	9.4	8.9	12.9
Lower Jack Creek	Nev.	19	42N	53E	7000	2-27	20.8	6.7	-	4.2	1.3	7.9
Martin Creek	Nev.	24	44N	39E	7000	3-3	29.1	8.2	-	7.6	6.8	5.9
Rodeo Flat	Nev.	31	43N	54E	7000	2-28	35.1	11.3	-	10.5	7.5	11.0
South Mountain No. 2	Idaho	35	7S	5W	6340	2-25	38.7	12.1	6.6	10.9	9.8	-
Big Bend	Nev.	30	45N	56E	6800	3-4	31.3	10.2	-	9.9	6.4	7.2
Fry Canyon	Nev.	32	43N	54E	6800	2-28	31.8	10.4	-	9.2	6.5	10.2
Lower Buckskin	Nev.	25	45N	39E	6800	3-2	27.3	7.5	-	8.4	5.8	6.8
Gold Creek Ranger Sta.	Nev.	32	45N	56E	6600	3-3	28.0	8.1	-	6.2	4.7	4.5
Silver City	Idaho	6	5S	3W	6400	3-2	38.9	13.2	6.9	9.9	9.4	6.4
Tremewan Ranch	Nev.	4	29N	55E	5600	3-1	14.4	4.1	-	3.2	0.0	2.4
Taylor Canyon	Nev.	32	39N	53E	5200	3-1	24.0	8.5	-	8.2	3.0	5.6
<u>MALHEUR RIVER</u>												
Blue Mountain Spring	133	21	15S	35E	5900	3-3	37.0	12.7	6.8	14.0	10.3	13.9
Rock Spring	134	23	18S	32E	5100	2-28	30.0	8.2	3.1	7.3	5.4	5.8
Stinking Water	135	33	21S	34E	4800	2-28	28.5	6.6	4.1	6.5	6.3	3.8
<u>BURNT RIVER</u>												
Dooley Mountain	156	32	11S	40E	5430	3-1	38.2	11.7	6.4	11.3	8.2	5.3
Blue Mountain Summit	141	6	12S	36E	5098	2-27	33.4	9.3	4.8	8.1	5.4	9.2

TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS				AVERAGE WATER DEPTH (INCHES)				
(Primary & Secondary & Snow Courses)		Oregon Number	Sec. Twp. Range	Elev.	Date	About March 1, 1942			One Month ago (2-1-42) (3-1-41) (3-1-40) (3-1-39)	Two Years ago	Three Years ago	
						Avg. Snow Depth (In.)	Avg. Water Depth (In.)					
POWDER RIVER												
Anthony Lake	155	18	7S 37E	7125	2-28	49.0	14.5	10.4	20.2	19.0	21.8	
Bourne	154	33	8S 37E	5800	2-27	48.0	12.9	7.5	10.6	13.0	12.9	
Dooley Mountain	156	32	11S 40E	5430	3-1	38.2	11.7	6.4	11.3	8.2	5.3	
Eilertson Meadows	151B	18	8S 38E	5400	2-27	33.0	9.1	4.5	10.6	13.2	15.1	
Gold Center	249	21	9S 36E	5340	2-28	38.9	10.4	5.9	11.0	10.4	12.6	
GRANDE RONDE RIVER												
Anthony Lake	155	18	7S 37E	7125	2-28	49.0	14.5	10.4	20.2	19.0	21.8	
Moss Spring	186	27	3S 41E	5860	2-26	48.6	13.9	8.2	16.9	18.0	-	
Beaver Reservoir	188	8	5S 37E	5340	2-25	31.9	7.6	4.7	6.8	17.3	16.6	
Tollgate	212	32	4N 38E	5070	2-24	51.3	14.1	7.0	15.6	18.1	34.6	
Schoolmarm	248	28	4S 34E	4775	No measurement.			N.R.	2.7	2.1	7.3	
LOWER COLUMBIA DRAINAGE												
WALLA WALLA RIVER												
Tollgate	212	32	4N 38E	5070	2-24	51.3	14.1	7.0	15.6	18.1	34.6	
UMATILLA RIVER												
Tollgate	212	32	4N 38E	5070	2-24	51.3	14.1	7.0	15.6	18.1	34.6	
Lucky Strike	223	28	3S 32E	5050	2-26	44.2	11.8	6.3	9.7	8.3	14.5	
Meacham	221	24&25	1S 35E	4300	2-25	28.8	7.4	3.5	3.6	7.5	13.3	
Emigrant Springs	222	29	1N 35E	3925	2-25	24.9	6.4	2.1	1.6	5.8	10.4	
WILLOW CREEK												
Arbuckle Mountain	241	33	4S 29E	5400	3-2	39.7	11.2	-	9.3	-	-	

TRIBUTARY BASINS (Primary & Secondary & Snow Courses)	Oregon Number	LOCATION Sec. Twp. Range	Elev.	Date	SNOW COVER MEASUREMENTS About March 1, 1942			AVERAGE WATER DEPTH (INCHES)				
					Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month ago (2-1-42)	One Year ago (3-1-41)	Two Years ago (3-1-40)	Three Years ago (3-1-39)		
JOHN DAY RIVER												
Olive Lake	245	14 9S	33 $\frac{1}{2}$ E	6000	2-28	47.4	11.7	7.6	13.3	12.2	13.5	
Blue Mountain Spring	133	21 15S	35E	5900	3-3	37.0	12.7	6.8	14.0	10.3	13.9	
Arbuckle Mountain	241	33 4S	29E	5400	3-2	39.7	11.2	-	9.3	-	-	
Gold Center	249	21 9S	36E	5340	2-28	38.9	10.4	5.9	11.0	10.4	12.6	
Izee Summit	964	28 16S	29E	5293	2-27	36.3	8.8	4.9	7.7	5.2	9.1	
Starr Ridge	247B	20 15S	31E	5150	2-27	27.5	6.2	3.7	5.8	3.8	5.6	
Blue Mountain Summit	141	6 12S	36E	5098	2-27	33.4	9.3	4.8	8.1	5.4	9.2	
Beech Creek Summit	246A	4 12S	30E	4800	2-27	28.4	7.8	3.6	5.2	4.5	7.6	
Schoolmarm	248	28 4S	34E	4775	No measurement.			N.R.	2.7	2.1	7.3	
DESCHUTES RIVER												
Ochoco Meadows	341	21 13S	20E	5200	2-28	41.9	11.6	5.9	9.8	8.0	9.6	
Hogg Pass	351	24 13S	7 $\frac{1}{2}$ E	4755	3-1	82.8	28.4	15.5	21.4	-	-	
Marks Creek	344	25 12S	19E	4540	2-26	30.4	7.2	3.6	3.9	3.1	5.6	
SANDY RIVER												
Phlox Point - Mt. Hood	452	6 3S	9E	5600	2-28	97.8	35.0	20.6	27.2	29.6	54.7	
Still Creek	451	25 3S	8 $\frac{1}{2}$ E	3700	2-28	33.9	10.9	5.8	5.3	7.6	22.4	
CLACKAMAS RIVER												
Peavine Ridge	591	14&15 6S	7E	3500	3-4	28.3	8.9	6.2	4.3	7.6	19.2	
Clackamas Lake	592	35 5S	8 $\frac{1}{2}$ E	3400		No report.		-	2.9	5.8	13.7	
WILLAMETTE RIVER												
Hogg Pass	351	24 13S	7 $\frac{1}{2}$ E	4755	3-1	82.8	28.4	15.5	21.4	-	-	
Champion	522	12 23S	1E	4500	2-28	42.8	11.7	3.0	13.3	9.6	37.0	

TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS				AVERAGE WATER DEPTH (INCHES)			
(Primary & Secondary & Snow Courses)		Oregon Number	Sec. Twp. Range	Elev.	Date	About March 1, 1942		One Month ago (2-1-42) (3-1-41)	One Year ago (3-1-40)	Two Years ago (3-1-39)	Three Years ago (3-1-38)
						Avg. Snow Depth (In.)	Avg. Water Depth (In.)				
I N T E R I O R D R A I N A G E											
CHEWAUCAN RIVER											
Mill Creek	922	1	34S 17E	6200	2-28	30.0	6.4	-	7.9	6.0	5.4
HARNEY BASIN											
Deer Creek	973	17	36S 26E	6670	2-25	34.0	8.7	4.4	8.6	6.1	-
Hart Mountain	971	1	36S 25E	6350	2-24	26.3	7.0	2.9	5.1	2.8	2.8
Izee Summit	964	28	16S 29E	5293	2-27	36.3	8.8	4.9	7.7	5.2	9.1
Idylwild Camp	961A	33	20S 31E	5200	3-1	27.2	7.2	3.6	6.3	4.3	5.9
Starr Ridge	247B	20	15S 31E	5150	2-27	27.5	6.2	3.7	5.8	3.8	5.6
Rock Spring	134	23	18S 32E	5100	2-28	30.0	8.2	3.1	7.3	5.4	5.8
GUANO LAKE											
Bald Mountain	Nev.	17	45N 21E	6720		No report.		-	5.9	2.9	-
Guano Creek	972	13	36S 25E	6480	2-24	41.3	11.1	5.5	7.3	5.6	-
W E S T C O A S T D R A I N A G E											
UMPUQUA RIVER											
Diamond Lake	743	29	27S 6E	5315	2-26	44.9	14.6	6.8	12.8	9.6	18.2
Champion	522	12	23S 1E	4500	2-28	42.8	11.7	3.0	13.3	9.6	37.0
Goolaway Mountain	7215	30	32S 3W	3730	2-26	6.0	1.1	Patches	Trace	2.1	10.9
Goolaway Gap	726	32	32S 3W	3000	2-26	2.4	0.5	0.0	0.0	0.6	4.9

TRIBUTARY BASINS

SNOW COVER MEASUREMENTS

AVERAGE WATER DEPTH (INCHES)

About March 1, 1942

LOCATION

(Primary & Secondary
& Snow Courses)

Oregon
Number

Sec. Twp. Range

Elev.

Date

Avg.
Snow
Depth
(In.)

Avg.
Water
Depth
(In.)

One
Month
ago
(2-1-42)

One
Year
ago
(3-1-41)

Two
Years
ago
(3-1-40)

Three
Years
ago
(3-1-39)

ROGUE RIVER

Wagner Butte	7213	1	40S	1W	6900	3-1	47.5	16.1	12.0	12.4	14.3	14.5
Scrags Mountain	7220	9	47N	10W	6200	3-2	56.7	21.2	18.8	26.4	-	-
Annie Spring	831	19	31S	6E	6018	2-28	90.6	30.0	18.1	39.9	38.0	34.0
Billie Creek Divide	722	30	36S	5E	6000	2-25	57.2	18.0	11.2	13.5	10.8	27.8
Grayback Peak	727	9	40S	5W	6000	2-28	59.3	19.2	13.5	-	-	-
Hyatt Prairie Reservoir	723	15	39S	3E	4900	2-28	30.9	9.2	5.6	7.2	4.5	11.9
Fish Lake	725	3	37S	4E	4865	2-26	29.2	9.6	6.3	2.8	2.7	17.1
Siskiyou Summit	728	17	40S	2E	4630	2-28	23.0	6.3	4.6	Trace	3.0	6.6
Althouse	7216	17	41S	7W	4400	2-28	15.1	4.4	0.5	3.7	2.9	-
Goolaway Mountain	7215	30	32S	3W	3730	2-26	6.0	1.1	Patches	Trace	2.1	10.9
Silver Burn	7219	30	30S	4E	3720	2-28	26.5	8.4	5.7	Trace	2.5	15.6
South Fork Canal	7218	12	33S	3E	3500	3-2	Patches		Trace	0.0	0.0	9.0
Goolaway Gap	726	32	32S	3W	3000	2-26	2.4	0.5	0.0	0.0	0.6	4.9

KLAMATH LAKE BASIN

Summer Rim	841	15	33S	16E	7200	2-27	44.9	13.0	-	13.6	12.6	9.2
Annie Spring	831	19	31S	6E	6018	2-28	90.6	30.0	18.1	39.9	38.0	34.0
Billie Creek Divide	722	30	36S	5E	6000	2-25	57.2	18.0	11.2	13.5	10.8	27.8
Strawberry	837	4	40S	16E	5600	3-1	27.4	7.9	6.1	9.4	5.0	8.7
Quartz Mountain 2/		33	37S	16E	5504	2-28	31.0	9.0	6.5	8.8	3.8	6.9
Sun Mountain	836	22	32S	7 1/2 E	5350	2-27	69.1	19.9	12.1	26.3	21.0	22.9
Quartz Mountain	811	2	38S	16E	5320	3-4	22.1	7.1	3.8	8.2	3.1	4.8
Crowder Flat (California)		30	47N	11E	5200	3-3	17.6	5.3	2.3	0.6	Trace	3.6
Lake of the Woods No. 1	835	11	37S	5E	4960	2-28	30.1	8.6	4.4	5.6	2.8	9.6
Hyatt Prairie Reservoir	723	15	39S	3E	4900	2-28	30.9	9.2	5.6	7.2	4.5	11.9
Richardson Ranch 2/		22	35S	14E	4800	2-28	0.0	0.0	0.7	0.0	0.0	2.1
Chemult No. 1	834	21	27S	8E	4760	2-28	32.3	10.2	6.3	8.4	8.0	8.7
Yamsey 2/		19	30S	11E	4600	2-28	0.0	0.0	0.0	0.0	0.0	1.9

TRIBUTARY BASINS (Primary & Secondary & Snow Courses)	LOCATION		SNOW COVER MEASUREMENTS About March 1, 1942				AVERAGE WATER DEPTH (INCHES)			
	Oregon Number	Sec. Twp. Range	Elev.	Date	Avg. Snow	Avg. Water	One Month ago (2-1-42)	One Year ago (3-1-41)	Two Years ago (3-1-40)	Three Years ago (3-1-39)
					Depth (In.)	Depth (In.)				
Kirk <u>2/</u>		1 33S 7E	4533	2-28	21.8	7.6	4.1	8.8	0.0	8.5
Beatty <u>2/</u>		22 36S 12E	4300	2-28	0.0	0.0	0.0	0.0	0.0	0.0
Crystal <u>2/</u>		26 34S 6E	4200	2-28	24.0	8.8	4.5	8.2	5.2	9.0
Pelican <u>2/</u>		10 36S 6E	4200	2-28	9.2	3.9	2.9	2.5	0.0	5.9
Chiloquin <u>2/</u>		34 34S 7E	4187	2-28	0.0	0.0	2.0	0.0	0.0	3.2
Fort Klamath <u>2/</u>		22 33S 7 $\frac{1}{2}$ E	4150	2-28	13.8	4.6	2.1	0.0	0.0	6.1
Rocky Point <u>2/</u>		26 35S 6E	4150	2-28	6.0	2.4	2.0	0.0	0.0	4.8
GOOSE LAKE BASIN										
Strawberry	837	4 40S 16E	5600	3-1	27.4	7.9	6.1	9.4	5.0	8.7
Quartz Mountain <u>2/</u>	33	37S 16E	5504	2-28	31.0	9.0	6.5	8.8	3.8	6.9
Quartz Mountain	811	2 38S 16E	5320	3-4 *	22.1	7.1	3.8	8.2	3.1	4.8

- 1/ The snow measurements are made principally by field personnel of the following organizations, or financial assistance is given by:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
War Department
Army Engineer Corps

PUBLIC UTILITIES

Eastern Oregon Light and Power Company
Portland General Electric Company
The California Oregon Power Company

MUNICIPALITIES

City of Corvallis
City of LaGrande
City of The Dalles

MUNICIPAL DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users Incorporated
Medford Irrigation District
Rogue River Irrigation District
Ochoco Irrigation District
Talent Irrigation District
Warm Springs Irrigation District
Vale-Oregon Irrigation District

PRIVATE CORPORATIONS

Amalgamated Sugar Company

- 2/ Water content determined by melting a measured sample.
(The California Oregon Power Company's station.)

